## 2. Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

## 1-43. (*canceled*)

- 44. (*New*) A medium for culturing mammalian cells comprising mannose, fructose, galactose, and N-acetylmannosamine.
  - 45. (New) The medium of claim 44, wherein the medium is serum free.
- 46. (New) The medium of claim 44, wherein the mammalian cells are CHO cells.
- 47. (New) The medium of claim 44, wherein the concentrations of galactose, mannose, and fructose are each from about 1 mM to about 10 mM and the concentration of N-acetylmannosamine is at least about 0.8 mM.
- 48. (New) The medium of claim 44, wherein the concentrations of galactose, mannose, and fructose are each from about 1.5 mM to about 4.5 mM.
- 49. (New) A method for increasing the sialic acid content of a protein produced by mammalian cells comprising culturing the cells in the medium of claim 44.
  - 50. (New) The method of claim 49, wherein the medium is serum free.
  - 51. (New) The method of claim 49, wherein the cells are CHO cells.
- 52. (New) The method of claim 49, wherein the concentrations of galactose, mannose, and fructose are each from about 1 mM to about 10 mM and the concentration of N-acetylmannosamine is at least about 0.8 mM.
- 53. (New) The method of claim 49, wherein the concentrations of galactose, mannose, and fructose are each from about 1.5 mM to about 4.5 mM.
- 54. (New) The method of claim 49, wherein the protein is a secreted, recombinant protein.
- 55. (New) The method of claim 49, wherein the cells are cultured at a temperature from about 29°C to about 36°C.
- 56. (New) A medium for culturing mammalian cells comprising galactose and N-acetylmannosamine.
  - 57. (New) The medium of claim 56, wherein the medium is serum free.

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- 58. (New) The medium of claim 56, wherein the mammalian cells are CHO cells.
- 59. (New) The medium of claim 56, wherein the concentration of galactose, is from about 1 mM to about 10 mM and the concentration of Nacetylmannosamine is at least about 0.8 mM.
- 60. (New) The medium of claim 56, wherein the concentration of galactose is from about 1.5 mM to about 4.5 mM.
- 61. (New) A method for increasing the sialic acid content of a protein produced by mammalian cells comprising culturing the cells in the medium of claim 56.
  - 62. (New) The method of claim 61, wherein the medium is serum free.
  - 63. (New) The method of claim 61, wherein the cells are CHO cells.
- 64. (New) The method of claim 61, wherein the concentration of galactose, is from about 1 mM to about 10 mM and the concentration of N-acetylmannosamine is at least about 0.8 mM.
- 65. (New) The method of claim 61, wherein the concentration of galactose, is from about 1.5 mM to about 4.5 mM.
- 66. (New) The method of claim 61, wherein the protein is a secreted, recombinant protein.
- 67. (New) The method of claim 61, wherein the cells are cultured at a temperature from about 29°C to about 36°C.
- 68. (New) A medium for culturing mammalian cells comprising mannose, fructose, and galactose.
  - 69. (New) The medium of claim 68, wherein the medium is serum free.
- 70. (New) The medium of claim 68, wherein the mammalian cells are CHO cells.
- 71. (New) The medium of claim 68, wherein the concentrations of galactose, mannose, and fructose are each from about 1 mM to about 10 mM.
- 72. (New) The medium of claim 68, wherein the concentrations of galactose, mannose, and fructose are each from about 1.5 mM to about 4.5 mM.
- 73. (New) A method for increasing the sialic acid content of a protein produced by mammalian cells comprising culturing the cells in the medium of claim 68.

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- 74. (New) The method of claim 73, wherein the medium is serum free.
- 75. (New) The method of claim 73, wherein the cells are CHO cells.
- 76. (New) The method of claim 73, wherein the concentrations of galactose, mannose, and fructose are each from about 1 mM to about 10 mM.
- 77. (New) The method of claim 73, wherein the concentrations of galactose, mannose, and fructose are each from about 1.5 mM to about 4.5 mM.
- 78. (New) The method of claim 73, wherein the protein is a secreted, recombinant protein.
- 79. (New) The method of claim 73, wherein the cells are cultured at a temperature from about 29°C to about 36°C.
- 80. (New) A medium for culturing mammalian cells in suspension comprising fructose and galactose.
  - 81. (New) The medium of claim 80, wherein the medium is serum free.
- 82. (New) The medium of claim 80, wherein the mammalian cells are CHO cells.
- 83. (New) The medium of claim 80, wherein the concentrations of galactose, and fructose are each from about 1 mM to about 10mM.
- 84. (New) The medium of claim 83, wherein the concentrations of galactose and fructose are each from about 1.5 mM to about 4.5 mM.
- 85. (New) A method for increasing the sialic acid content of a protein produced by mammalian cells comprising culturing the cells in suspension in the medium of claim 80.
  - 86. (New) The method of claim 85, wherein the medium is serum free.
  - 87. (New) The method of claim 85, wherein the cells are CHO cells.
- 88. (New) The method of claim 85, wherein the concentrations of galactose and fructose are each from about 1 mM to about 10 mM.
- 89. (New) The method of claim 88, wherein the concentrations of galactose and fructose are each from about 1.5 mM to about 4.5 mM.
- 90. (New) The method of claim 85, wherein the protein is a secreted, recombinant protein.
- 91. (New) The method of claim 85, wherein the cells are cultured at a temperature from about 29°C to about 36°C.